This listing of the claims replaces any and all prior versions and listings of claims in the application:

AMENDMENTS TO THE CLAIMS

- 1 (Withdrawn): A slider assembly comprising a plurality of sliders bonded by a debondable solid encapsulant, wherein the encapsulant is comprised of a silicon-based polymer, each slider has a surface that is free from the encapsulant, and the encapsulant-free surfaces are coplanar to each other.
- 2 (Withdrawn): The slider assembly of claim 1, having a contiguous planar surface comprised of at least one encapsulant region and containing the coplanar slider surfaces.
- 3 (Withdrawn): The slider assembly of claim 2, wherein the sliders are arranged in an array.
 - 4 (Withdrawn): The slider assembly of claim 3, wherein the array is a rectilinear array.
- 5 (Withdrawn): The slider assembly of claim 4, wherein the sliders do not contact each other.
- 6 (Withdrawn): The slider assembly of claim 4, wherein the coplanar surfaces of the sliders are each an air-bearing surface.
- 7 (Withdrawn): The slider assembly of claim 6, further comprising a substrate in contact with the air-bearing surfaces.
- 8 (Withdrawn): The slider assembly of claim 7, wherein the substrate is comprised of a laminate of a flexible tape and an adhesive, wherein the adhesive is in contact with the airbearing surfaces.
- 9 (Withdrawn): The slider assembly of claim 8, wherein the adhesive is a pressure sensitive adhesive.

- 10 (Withdrawn): The slider assembly of claim 8, wherein the adhesive preferentially adheres to the tape over the air-bearing surfaces.
- 11 (Withdrawn): The slider assembly of claim 4, wherein the encapsulant is mechanically stable for thermal cycling from about 20°C to about 100°C.
 - 12 (Withdrawn): The slider assembly of claim 4, wherein the encapsulant is rigid.
- 13 (Withdrawn): The slider assembly of claim 4, wherein the encapsulant does not substantially outgas under vacuum.
- 14 (Withdrawn): The slider assembly of claim 4, further comprising a carrier attached to the encapsulant and/or at least one slider, wherein the carrier does not cover any of the coplanar slider surfaces.
- 15 (Withdrawn): The slider assembly of claim 6, further comprising a resist layer on the air-bearing surfaces, wherein the encapsulant is mechanically stable upon exposure to the resist layer or any component thereof.
- 16 (Withdrawn): The slider assembly of claim 15, wherein the encapsulant is subject to solvation by a solvent not found in the resist layer.
- 17 (Withdrawn): The slider assembly of claim 16, wherein the solvent dissolves the silicon-based polymer.
- 18 (Withdrawn): The slider assembly of claim 17, wherein the solvent is comprised of propylene glycol methyl ether acetate and/or N-methylpyrrolidinone.
- 19 (Withdrawn): The slider assembly of claim 4, wherein the silicon-based polymer is prepared via *in situ* polymerization of organosilicon prepolymers.

- 20 (Withdrawn): The slider assembly of claim 19, wherein the organosilicon prepolymers have an average molecular weight less than about 1,000 Daltons.
- 21 (Withdrawn): The slider assembly of claim 19. wherein the silicon-based polymer is prepared in via in situ polymerization using an polymeric amine catalyst.
 - 22 (Previously presented): A method for forming a slider assembly, comprising:
- (a) arranging a plurality of sliders each having a surface such that the surfaces are coplanar to each other;
- (b) dispensing a silicon-based encapsulant fluid in a manner effective to fill gaps or recesses between the sliders without contacting the coplanar slider surfaces; and
- (c) subjecting the dispensed encapsulant fluid to conditions effective for the fluid to form a readily debondable solid encapsulant comprising a silicon-based polymer.
- 23 (Original): The method of claim 22, wherein step (a) comprises placing the sliders on a laminate of a flexible tape and an adhesive such that slider surfaces contact the adhesive.
- 24 (Original): The method of claim 23, wherein the adhesive is resistant or impervious to solvation by the encapsulant fluid.
- 25 (Original): The method of claim 22, wherein the encapsulant fluid has an initial viscosity of no more than about 800 centistokes.
- 26 (Original): The method of claim 25, wherein the initial viscosity is no more than about 500 centistokes.
- 27 (Original): The method of claim 26, wherein the initial viscosity is about 20 to about 200 centistokes.

- 28 (Original): The method of claim 22, wherein step (c) comprises removing solvent from the encapsulant fluid.
- 29 (Previously presented): The method of claim 22, wherein step (c) comprises effecting crosslinking and/or polymerization in the encapsulant fluid.
 - 30 (Withdrawn): A method for patterning an air-bearing surface of a slider, comprising:
- (a) applying a resist layer on an air-bearing surface of a slider, wherein at least a portion of the slider other than the air-bearing surface is encapsulated in a debondable solid encapsulant comprising a silicon-based polymer;
- (b) removing a portion of the resist layer to uncover a portion of the air-bearing surface in a patternwise manner; and
- (c) adding material to and/or removing material from the uncovered portion of the airbearing surface, thereby patterning the air-bearing surface of the slider,

wherein the encapsulant is mechanically stable upon exposure to any fluid employed in steps (a), (b), and/or (c).

- 31 (Withdrawn): The method of claim 30, further comprising, after step (a) and before step (b), exposing the resist layer to photons in the patternwise manner.
- 32. (Previously presented): The method of claim 22, wherein the solid encapsulant does not substantially outgas under vacuum.
- 33. (Previously presented): The method of claim 29, wherein step (c) comprises *in situ* polymerization of organosilicon prepolymers.
- 34. (Previously presented): The method of claim 22, wherein the silicon-based polymer has phenyl substituents.
- 35. (Previously presented): The method of claim 29, wherein a polymeric catalyst containing pendant amino-functionalities is employed in step (c).

Application Serial No. 10/611,418 Amendment dated July 31, 2007 Reply to Office Action of May 1, 2007

- 36. (Previously presented): The method of claim 35, wherein a curing temperature of about 150°C or less is employed in step (c).
- 37. (Previously presented): The method of claim 22, further comprising a step (c) of debonding the encapsulant by means of a solvent comprising propylene glycol methyl ether acetate or N-methylpyrrolidinone.
- 38. (New): The method of claim 22, wherein the silicon-based polymer comprises a member selected from the group consisting of a siloxane, a silicate, and a silicon-containing pendent moiety.
 - 39. (New): The method of claim 22, wherein the sliders are free from encapsulant.